

# BRUXISM

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## WEBSTER'S TIMELINE HISTORY 1955 - 2007

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# Bruxism

Webster's Timeline History  
1955 - 2007

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Bruxism: Webster's Timeline History, 1955 - 2007

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## PREFACE

Webster's bibliographic and event-based timelines are comprehensive in scope, covering virtually all topics, geographic locations and people. They do so from a linguistic point of view, and in the case of this book, the focus is on "bruxism," including when used in literature (e.g. all books that might have "bruxism" in their title). As such, this book represents the largest compilation of timeline events associated with "bruxism". Webster's timelines cover bibliographic citations, patented inventions, as well as non-conventional and alternative meanings which capture ambiguities in usage. These furthermore cover all parts of speech (possessive, institutional usage, geographic usage) and contexts, including pop culture, the arts, social sciences (linguistics, history, geography, economics, sociology, political science), business, computer science, literature, law, medicine, psychology, mathematics, chemistry, physics, biology and other physical sciences. The following keywords were used to build the timeline: bruxisms, bruxism's, bruxism-. This "data dump" results in a comprehensive set of entries for a bibliographic and/or event-based timeline on the word "bruxism", since editorial decisions to include or exclude events is purely a linguistic process. The resulting entries are used under license or with permission, used under "fair use" conditions, used in agreement with the original authors, or are in the public domain. For all of the sources, the original authors holding copyright retain any copyrights. Proceeds from this book are used to expand the content and coverage of Webster's Online Dictionary ([www.websters-online-dictionary.org](http://www.websters-online-dictionary.org)).



# 1955

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**Jeffrey Y. Nordlander, et al.:** "METHOD AND APPARATUS FOR SENSING AND TREATING BRUXISM" is patented by Jeffrey Y. Nordlander, Louis J. Gallia and Dennis A. Burman.

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**Donald W. Schaefer and Melvin P. Siedband:** "Dental appliance for treating bruxism" is patented by Donald W. Schaefer and Melvin P. Siedband.

**Ellison, J. M. and P. Stanziani:** "SSRI-associated nocturnal bruxism in four patients" appears in The Journal of Clinical Psychiatry written by J. M. Ellison and P. Stanziani. Published in November 1993.

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## 1994

Sheikholeslam and C. Riise. Published in March 1993.

**John S. Tregillis:** "Dental appliance" is patented by John S. Tregillis. Abstract: A dental appliance including a heat-cured methyl methacrylate and a heat-cured ethyl acrylate. The heat-cured methyl methacrylate covers the occlusal surface of the teeth, while the heat-cured ethyl acrylate covers the buccal side and lingual side of the teeth and may extend onto the tissue. The occlusal surface remains hard. The dental appliance can be a splint, such as for bruxism, temporomandibular disorders, or mandibular repositioning appliances.

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**Michael A. Burger and Rigobertus W. Martens:** "Device for preventing bruxism" is patented by Michael A. Burger and Rigobertus W. Martens. Abstract: An anti bruxism device for stopping or at least diminishing bruxism comprises a splint adapted to be secured to a tooth of a user, and a biofeedback system mounted on the splint. The biofeedback system includes a detector for detecting bruxism, and a stimulation device for stimulating the user responsive to detection of bruxism by the detector. The stimulation produced by the stimulation device causes the user to stop bruxating. Bruxism is a function that could damage teeth and molars, and may affect the neuro-muscular system in a negative way, and could cause, for example, headaches.

**Nel, J. C., et al.:** "Bruxism threshold: an explanation for successful treatment of the multifactorial aetiology of bruxism" appears in Australian Prosthodontic Journal / Australian Prosthodontic



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**Pierce, C. J., et al.:** "Stress, anticipatory stress, and psychologic measures related to sleep bruxism" appears in Journal of Orofacial Pain written by C. J. Pierce, K. Chrisman, M. E. Bennett and J. M. Close. Published in December 1995.

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**Lobbezoo, F., et al.:** "Striatal D2 receptor binding in sleep bruxism: a controlled study with iodine-123-iodobenzamide and single-photon-emission computed tomography" appears in Journal of Dental Research written by F. Lobbezoo, J. P.

Soucy, J. Y. Montplaisir and G. J. Lavigne. Published in October 1996.

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**Amir, I., et al.:** "Bruxism secondary to antipsychotic drug exposure: a positive response to propranolol" appears in Clinical Neuropharmacology written by I. Amir, H. Hermesh and A. Gavish. Published in February 1997.

**Earl O Bergersen:** "Appliance adapted to fit many mouth and tooth sizes for orthodontic correction and other uses" is patented by Earl O Bergersen. Abstract: An orthodontic appliance for assisting in properly positioning teeth within the mouth of an individual which is capable of fitting various mouth and tooth sizes. The appliance includes a labial-buccal flange, a lingual flange spaced from the labial-buccal flange, both of which define a generally U-shaped configuration in the occlusal view, and an isthmus interconnecting the two flanges. At least one tooth trough is defined between the labial-buccal flange and the lingual flange for receiving either an upper or a lower row of the individual's teeth. The appliance includes no individual tooth sockets but instead utilizes pressure applied by the labial-buccal flange, the lingual flange, and the relative angles and material thicknesses to properly position the teeth.

**Gary H. Singer, et al.:** "Dental appliance for alleviating snoring and protecting teeth from bruxism" is patented by Gary H. Singer, Carl Erwin Misch and Neil R. Gottehrer.

**Lavigne, G. L., et al.:** "Cigarette smoking as a risk factor or an exacerbating factor for restless legs syndrome and sleep bruxism" appears in Sleep written by G. L. Lavigne, F. Lobbezoo, P. H. Rompre, T. A. Nielsen and J. Montplaisir. Published in April 1997.

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Official Journal of the Movement Disorder Society written by F. Lobbezoo, G. J. Lavigne, R. Tanguay and J. Y. Montplaisir. Published in January 1997.

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**Molina, O. F. and J. Jr.:** "Prevalence of modalities of headaches and bruxism among patients with craniomandibular disorder" appears in *Cranio: the Journal of Craniomandibular Practice* written by O. F. Molina, J. Dos Santos Jr. Published in October 1997.

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**Dao, T. T. and G. J. Lavigne:** "Oral splints: the crutches for temporomandibular disorders and bruxism?" appears in *Critical Reviews in Oral Biology and Medicine: An Official Publication of the American Association of Oral Biologists* written by T. T. Dao and G. J. Lavigne. Published in 1998.

**Don Morris:** "Systems and Methods for Modifying Behavioral Disorders" is patented by Don Morris. Abstract: A system is provided for monitoring an undesired behavioral disorder such as bruxism, jaw clenching, or snoring. A processor (110) correlates the monitored behavior with the onset of the undesired disorder. Since behavior of this type is typically subconscious the sensor (105) is preferably coupled to a warning device (120) to alert the patient when he, or she is performing the undesired behavior. Typically the warning device (120) causes the patient to experience an unpleasant sensation, thus promoting the discontinuance of the behavior. In one embodiment the system determines which stimuli is most effective, and therefore best suited for an individual patient. The system may further include means (130) to record the monitored data related to the undesired behavioral disorders.

**Donald E. Morris:** "Systems for modifying

behavioral disorders" is patented by Donald E. Morris. Abstract: A system is provided for monitoring an undesired behavioral disorder such as bruxism, jaw clenching, or snoring. A processor correlates the monitored behavior with the onset of the undesired disorder. Since behavior of this type is typically subconscious, the sensor is preferably coupled to a warning device to alert the patient when he or she is performing the undesired behavior. Typically the warning device causes the patient to experience an unpleasant sensation, thus promoting the discontinuance of the behavior. In one embodiment the system determines which stimuli is most effective and therefore best suited for an individual patient. The system may further include means to record the monitored data related to the undesired behavioral disorders.

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**Jorgic-Srdjak, K., et al.:** "Bruxism and psychobiological model of personality" appears in *Collegium Antropologicum* written by K. Jorgic-Srdjak, S. Ivezic, A. Cekic-Arambasin and A. Bosnjak. Published in December 1998.

**Karl T. Ulrich, et al.:** "Measurement device for quantifying the severity of bruxism" is patented by Karl T. Ulrich, Lee Weinstein, K. Alex McDonald and Clay A. Burns.

**Khan, F., et al.:** "Dental erosion and bruxism. A tooth wear analysis from south east Queensland" appears in *Australian Dental Journal* written by F. Khan, W. G. Young and T. J. Daley. Published in April 1998.

**Lee Weinstein, et al.:** "Bruxism biofeedback apparatus and method" is patented by Lee Weinstein, Karl T. Ulrich, Thomas E. Devlin and Clay Burns.

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**Amemori, Y.:** "Influence of bruxism during sleep on stomatognathic system" appears in K Inverted Question Mark Inverted Question Mark by Inverted Question Mark Gakkai Zasshi. the Journal of the Stomatological Society, Japan written by Y. Amemori. Published in March 1999.

**Bostwick, J. M. and M. S. Jaffee:** "Buspirone as an antidote to SSRI-induced bruxism in 4 cases" appears in The Journal of Clinical Psychiatry written by J. M. Bostwick and M. S. Jaffee. Published in December 1999.

**Brown, E. S. and S. C. Hong:** "Antidepressant-induced bruxism successfully treated with gabapentin" appears in Journal of the American Dental Association (1939) written by E. S. Brown and S. C. Hong. Published in October 1999.

**Don A. Pantino:** "Methods and apparatus for improved interocclusal mandibular repositioning with adjustable relational members" is patented by Don A. Pantino. Abstract: A non-surgical oral appliance for improving breathing, and abating or completely alleviating snoring sounds, TMJ and bruxism while sleeping. In one embodiment the user is professionally fitted for the appliance such that the appliance positions the mandible in an open, protrusive, predetermined position such that the oral airway permits the enhanced passage of air. In another embodiment the user is "self" fitted and there in may customize the appliance in the home or like setting such that the appliance positions the mandible in an open, protrusive position such that the oral airway permits the enhanced passage of air.

**Hachmann, A., et al.:** "Efficacy of the nocturnal bite plate in the control of bruxism for 3 to 5 year old children" appears in The Journal of Clinical Pediatric Dentistry written by A. Hachmann, E. A. Martins, F. B. Araujo and R. Nunes. Published in September 1999.

**Hirsch, L. J. and D. Crispin:** "EEG checkerboard pattern of bruxism" appears in Neurology written by L. J. Hirsch and D. Crispin. Published on September 11, 1999.

**Kato, T., et al.:** "Idiopathic myoclonus in the oromandibular region during sleep: a possible source of confusion in sleep bruxism diagnosis"

appears in Movement Disorders: Official Journal of the Movement Disorder Society written by T. Kato, J. Y. Montplaisir, P. J. Blanchet, J. P. Lund and G. J. Lavigne. Published in September 1999.

**Lee Weinstein, et al.:** "Bruxism biofeedback apparatus and method including acoustic transducer coupled closely to user's head bones" is patented by Lee Weinstein, Thomas E. Devlin, Karl T. Ulrich and Clay Burns. Abstract: A method and apparatus for the treatment of bruxism thorough biofeedback is disclosed. In one embodiment, the apparatus consists of electronics mounted in a light-weight headband which may be worn comfortably by a user during sleep or while awake. Electrodes within the headband pick up surface EMG voltage signals indicative of bruxism, and bio-feedback is provided to the user by a piezoelectric transducer in mechanical contact with the head of the user. One electrode of the piezoelectric transducer also serves as the reference sense electrode. The electrodes require no chemistry, allowing the apparatus to be worn for considerable periods without skin irritation.

**Mantyvaara, J., et al.:** "Altered control of submaximal bite force during bruxism in humans" appears in European Journal of Applied Physiology and Occupational Physiology written by J. Mantyvaara, T. Sjoholm, T. Kirjavainen, A. Waltimo, M. Iivonen, P. Kemppainen and A. Pertovaara. Published in March 1999.

**Moti Nissani:** "Taste-based approach to the prevention of teeth clenching and grinding" is patented by Moti Nissani. Abstract: A new biofeedback modality for the treatment of bruxism. A mildly aversive, safe, liquid is inserted into, and sealed in, small, bilaterally-sleeved, polyethylene capsules. Two capsules are attached to a specially-constructed dental appliance which comfortably and securely places them between the lower and upper teeth. The appliance and capsules are worn at night or at other times when bruxism is suspected to occur. Whenever a sleeping or an awake patient attempts to brux, the capsules rupture and the liquid is released into the mouth. The liquid then draws the patient's conscious attention to, and forestalls, any attempt of teeth clenching or grinding.



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**Nassif, N. J. and K. S. Al-Ghamdi:** "Managing bruxism and temporomandibular disorders using a centric relation occlusal device" appears in Compendium of Continuing Education in Dentistry (Jamesburg, N.J.: 1995) written by N. J. Nassif and K. S. Al-Ghamdi. Published in November 1999.

**Nobutaka Yoshida:** "Dental protector against bruxism" is patented by Nobutaka Yoshida. Abstract: The invention has for its object to provide a dental protector against bruxism adapted to protect the teeth from clenching, insure stability during wear, and applicable to many persons.

**Watts, M. W., et al.:** "Bruxism and cranial-cervical dystonia: is there a relationship?" appears in Cranio: the Journal of Craniomandibular Practice written by M. W. Watts, E. K. Tan and J. Jankovic. Published in July 1999.

local percutaneous delivery of a drug such as a muscle relaxant, more particularly cyclobenzaprine in an organogel cream. The composition is applied by the patient directly to the skin over accessible muscles of mastication i.e., masseter and temporalis. The composition is rapidly absorbed through the skin to provide control of harmful habits such as bruxism and tooth clenching. The composition can also be applied to the skin overlying these muscles to control muscle hyperactivity (spasm) and/or trigger points, from other causes. The composition can be formulated to include another active agent such as a non-steroidal anti-inflammatory, for example ketoprofen.

**Nissani, M.:** "Can taste aversion prevent bruxism?" appears in Applied Psychophysiology and Biofeedback written by M. Nissani. Published in March 2000.

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**Bader, G. and G. Lavigne:** "Sleep bruxism; an overview of an oromandibular sleep movement disorder. REVIEW ARTICLE" appears in Sleep Medicine Reviews written by G. Bader and G. Lavigne. Published in February 2000.

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**Jacobs, R. and A. Laat:** "Bruxism and overload of periodontium and implants" appears in Nederlands Tijdschrift Voor Tandheelkunde written by R. Jacobs and A. De Laat. Published in July 2000.

**Jaffee, M. S. and J. M. Bostwick:** "Buspirone as an antidote to venlafaxine-induced bruxism" appears in Psychosomatics written by M. S. Jaffee and J. M. Bostwick. Published in November - December 2000.

**Landman, P.:** "Restoring aesthetics and vertical dimension in a bruxism case" appears in Dentistry Today written by P. Landman. Published in October 2000.

**Mark Friedman:** "Treatment of bruxism" is patented by Mark Friedman. Abstract: This invention relates to the use of a composition for

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**Lavigne, G. J., et al.:** "Double-blind, crossover, placebo-controlled trial of bromocriptine in patients with sleep bruxism" appears in Clinical Neuropharmacology written by G. J. Lavigne, J. P. Soucy, F. Lobbezoo, C. Manzini, P. J. Blanchet and J. Y. Montplaisir. Published in May - June 2001.

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**Raigrodski, A. J., et al.:** "The effect of four-week administration of amitriptyline on sleep bruxism. A double-blind crossover clinical study" appears in *Cranio: the Journal of Craniomandibular Practice* written by A. J. Raigrodski, L. V. Christensen, S. E. Mohamed and D. M. Gardiner. Published in January 2001.

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**Sullivan, T. C.:** "A new occlusal splint for treating bruxism and TMD during orthodontic therapy" appears in *Journal of Clinical Orthodontics: JCO* written by T. C. Sullivan. Published in March 2001.

**Takeuchi, H., et al.:** "A piezoelectric film-based intrasplint detection method for bruxism" appears in *The Journal of Prosthetic Dentistry* written by H. Takeuchi, T. Ikeda and G. T. Clark. Published in August 2001.

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**Israel Yerushalmy:** "Apparatus for treating bruxism" is patented by Israel Yerushalmy. Abstract: Apparatus for the treatment of bruxism, including a biosensor adapted to sense a phenomenon associated with a bruxing event, and a relaxation stimulator in communication with the biosensor and adapted to provide a relaxation stimulus to relax at least one of an obruxism muscle and an obruxism nerve.

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**Kato, T., et al.:** "Evidence that experimentally induced sleep bruxism is a consequence of transient arousal" appears in Journal of Dental Research written by T. Kato, J. Y. Montplaisir, F. Guitard, B. J. Sessle, J. P. Lund and G. J. Lavigne. Published in April 2003.

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manipulation for chronic sleep bruxism, headache, and cervical spine pain in a child" appears in Journal of Manipulative and Physiological Therapeutics written by G. A. Knutson. Published in July - August 2003.

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